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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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11/13/2008

THE FARRELL LAW FIRM, P.C. 333 EARLE OVINGTON BOULEVARD SUITE 701 UNIONDALE, NY 11553

EXAMINER

BLAIR, DOUGLAS B

ART UNIT PAPER NUMBER

2442

DATE MAILED: 11/13/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,534	11/01/2001	Tae-Sung Jung	678-0768	3265

TITLE OF INVENTION: SYSTEM AND METHOD FOR ASSIGNING A MOBILE IP TO A MOBILE NODE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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10/002,534	11/01/2001	•	Tae-Sung Jung				678-0768		3265
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	ue I	PREV. PAID ISSUE	FEE FEE	TOTAL FEE(S) DUE	T	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		02/13/2009
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BLAIR, DO		2442	709-227000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, altern (2) the name of a s registered attorney	of a single firm (having as a member a rney or agent) and the names of up to the attorneys or agents. If no name is					
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10/002,534	11/01/2001	Tae-Sung Jung	678-0768	3265		
66547 75	590 11/13/2008		EXAM	INER		
THE FARRELL LAW FIRM, P.C.			BLAIR, DOUGLAS B			
	IGTON BOULEVARD	)	ART UNIT	PAPER NUMBER		
SUITE 701 UNIONDALE, NY 11553			2442 DATE MAILED: 11/13/200	8		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 772 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 772 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/002,534	JUNG, TAE-SUNG		
Notice of Allowability	Examiner	Art Unit		
	DOUGLAS B. BLAIR	2442		
The MAILING DATE of this communication apperation apperation apperation apperation apperation apperation and a local series of all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OFFICE OF THE OFFICE OFFIC	ears on the cover sheet with the cover sheet she	correspondence address uplication. If not included n will be mailed in due course. THIS		
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Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAMINER	R'S AMENDMENT or NOTICE OF		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> </ol>	st be submitted.			
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Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amend 8. ☒ Examiner's Statem 9. ☐ Other	(PTO-413), te		
/Douglas B Blair/				
Primary Examiner, Art Unit 2442				

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Rob Griffith (Reg. No. 48,956) on 10/30/2008.

The claims are to be amended as indicated on the following page:

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Art Unit: 2442

### **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A system for providing a VPN (Virtual Private Network) service

by connecting a VPN to a mobile communication network, comprising:

a home agent (HA) in which location information of a mobile node (MN) and

information about the VPN service for the MN are stored when the HA receives from the MN, a

location registration request message for the VPN service;

a foreign agent (FA) for receiving location registration information from the MN,

transmitting a location registration request message to the HA, receiving information about the

VPN service from the HA and transmitting data to an ISP (Internet Service Provider) router in a

same network as that of the FA, when receiving a VPN service request;

an ISP server positioned between the ISP router of the FA network and an ISP router of

the VPN, for managing information on the ISP routers and establishing IP tunneling between the

ISP routers;

a router network for routing between the FA network and the VPN, and for receiving and

transmitting the data using an IP tunnel to a correspondence node; and

a VPN server connected to the ISP router of the VPN, for providing the VPN service

connected to the ISP router of the VPN.

2. (Previously Presented) The system as claimed in claim 1, wherein the ISP server

searches the ISP router of the FA network using an address of the FA.

3. (Original) The system as claimed in claim 1, wherein the HA prevents the MN from accepting

a call request received from a specific node in an IP network while the MN is performing the

VPN service.

16. (Cancelled)

Art Unit: 2442

4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)

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Art Unit: 2442

17. (Cancelled)

18. (Cancelled)

19. (Previously Presented) The system as claimed in claim 1, wherein the MN transmits an address of the HA and an address of the VPN server to the FA during VPN registration, and performs the VPN service by receiving a temporary ID for use of the VPN from the FA during the location registration.

- 20. (Currently Amended) The system as claimed in <u>claim 1</u> elaim 4, wherein the MN stores the address of the VPN server and an address of a router in the network, received from the FA, and performs the VPN service using the received addresses.
- 21. (Currently Amended) A method for providing a VPN (Virtual Private Network) service to an MN (Mobile Node) located in an FA (Foreign Agent) network, connected to the MN, comprising the steps of:

managing in an ISP (Internet Service Provider) server information on ISP routers for establishing an IP (Internet Protocol) tunnel between an ISP router in the FA network and an ISP router of the VPN;

upon receiving a location registration request message for the VPN service from an FA in an HA (Home Agent), storing an address of the FA connected to the MN in the HA, wherein the HA further comprises information about the VPN service for the MN;

receiving information about the VPN service from the HA in the FA in response to the reception of the location registration request message by the HA;

establishing an IP tunnel between the ISP router in the FA network and the ISP router of the VPN; and

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receiving and transmitting the data from/to the VPN for performing the VPN service using the IP tunnel .

- 22. (Previously Presented) The method as claimed in claim 21, further comprising blocking an Internet service when being in a VPN service state.
- 23. (Previously Presented) The method as claimed in claim 21, further comprising transmitting a location registration failure message for the VPN service upon failure to receive a reply signal within a time period after transmitting the location registration request message.
- 24. (Previously Presented) The method as claimed in of claim 21, further comprising activating a timer for a time period when the VPN service is available and performing a VPN service mode.
- 25. (Previously Presented) The method as claimed in of claim 21, further comprising transmitting from the MN an address of the HA and an address of the VPN server to the FA during VPN registration, and performing the VPN service by receiving a temporary ID for use of the VPN from the FA during the location registration in the MN.
- 26. (Previously Presented) The method as claimed in of claim 21, further comprising storing the address of the VPN server and an address of a router in the network received from the FA in the MN, and performing the VPN service using the received addresses.

#### Reasons For Allowance

The following is an examiner's statement of reasons for allowance: The prior art of record does not teach or suggest the concept of having a foreign agent retrieving VPN service information from a home agent when establishing a VPN connection in the context of the applicant's claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS B. BLAIR whose telephone number is (571)272-3893. The examiner can normally be reached on 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Douglas B Blair/ Primary Examiner, Art Unit 2442